

20000409.qrp v01\_n786.qrl.20000409

Date: Sun, 9 Apr 2000 19:03:12 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1786

## QRP-L Digest 1786

Topics covered in this issue include:

- 1) [67484] antenna tuner from dan's small parts  
by john@neknetwork.com
- 2) [67485] AL7FS - Thanks for the QSO, Jim :-)  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 3) [67486] HB: 1:1 Balun  
by "Steven Weber" <kd1jv@moose.ncia.net>
- 4) [67487] More Antenna Tuner Follies  
by nilsbull@juno.com
- 5) [67488] Re: antenna tuner from dan's small parts  
by "Randall" <Firefox@Southwind.net>
- 6) [67489] Re: Spring QSO Party  
by "Kent, AE4Y" <ae4y@hotmail.com>
- 7) [67490] Propagation/Popcorn  
by S LYON <sslyon@worldnet.att.net>
- 8) [67491] RE: Beam  
by Nick Kennedy <nkennedy@tcainternet.com>
- 9) [67492] Re: Fw: Norcal QRPP -WINTER ISSUE  
by "Mark Hogan" <mhogan@email.msn.com>
- 10) [67493] ArkieCon reports ...please!!  
by "George Heron N2APB" <n2apb@erols.com>
- 11) [67494] Re: Propagation  
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 12) [67495] Emtech NW-40 project started. (long)  
by "M. Pender" <steam@megsinet.net>
- 13) [67496] Kit for trade or sale. QRP  
by Nate Bushnell <nateb@ecentral.com>
- 14) [67497] VOMARC Hamfest + QRPTTF  
by WD6BOR@aol.com
- 15) [67498] Re: Norcal QRPP Journal and OTHER's ...??  
by "Bob Helms" <af5z@inetport.com>
- 16) [67499] Re: Norcal QRPP Journal and OTHER's ...??  
by "K7FD-N7SG" <cqdx@teleport.com>
- 17) [67500] K2 Mojo VS K the propagation index  
by "Rod, N0RC" <n0rc@qsl.net>
- 18) [67501] Re: antenna tuner from dan's small parts  
by Bruce G Shaw <bruceshaw@juno.com>
- 19) [67502] West Florida QRP Meeting - building stuff!

- by Macstein@aol.com
- 20) [67503] QRP Mod?  
by John Paul Dooley <w6zip@gte.net>
- 21) [67504] Someone's stray RF is wondering-  
by John Paul Dooley <w6zip@gte.net>
- 22) [67505] ham radio computer programmer's page  
by Dave Pomeroy <dave\_pomeroy@yahoo.com>
- 23) [67506] Re: Major Geomagnetic Storm  
by dave.g0dja@psilink.co.uk (David J. Ackrill)
- 24) [67507] Re: Someone's stray RF is wondering-  
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 25) [67508] Re: Someone's stray RF is wondering-  
by Wb8siw@aol.com
- 26) [67509] Broken Bug Help  
by "Mark Kesner" <marklori@visuallink.com>
- 27) [67510] Re: Major Geomagnetic Storm  
by "Chuck Carpenter" <w5usj@globeco.net>
- 28) [67511] RE: Norcal QRPP -WINTER ISSUE  
by "Mark Hogan" <mhogan@email.msn.com>
- 29) [67512] ArkieCon: Big Fun for QRPers!  
by Nick Kennedy <nkennedy@tcainternet.com>
- 30) [67513] re: arkiecon  
by "ke5tc" <ke5tc@crosstel.net>
- 31) [67514] Help needed with MFJ Nicad pack/charger  
by john <johnmb@mindspring.com>
- 32) [67515] HB: my SNAP transmitter  
by Ken La Rose <kenlar@csolve.net>
- 33) [67516] NorCal  
by "Doug Hendricks" <ki6ds@hotmail.com>
- 34) [67517] Bencher paddle FS  
by "Ken Simpson" <W8EK@fdt.net>
- 35) [67518] Re: HB: my SNAP transmitter  
by john@neknetwork.com
- 36) [67519] Propagation/Popcorn  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 37) [67520] Help with QRP-ARCI QSO  
by "Rod, N0RC" <n0rc@qsl.net>
- 38) [67521] ArkieCon Reports and QRP AFIELD Results Posted  
by Jerry Parker <jparker@fix.net>
- 39) [67522] ARCI Contest  
by "Ron Polityka" <wb3aal@talon.net>
- 40) [67523] SELL: NC40 w/keyer \$75.00  
by Patrick Armstrong <aa7fg@gte.net>
- 41) [67524] Re: Help with QRP-ARCI QSO  
by "Rod, N0RC" <n0rc@qsl.net>
- 42) [67525] HELP: generic Ten-Tec #224 audio cw filter  
by W1XV@cs.com
- 43) [67526] Re: West Florida QRP Meeting - building stuff!

by Rick Evans <rkevans@iag.net>  
44) [67527] Happy Dance at Arkiecon  
by "Jim Crooke" <crooke@prodigy.net>

-----  
Date: Sat, 08 Apr 2000 19:28:47 -0400  
From: john@neknetwork.com  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [67484] antenna tuner from dan's small parts  
Message-ID: <38EFC0AF.8386CE2F@neknetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Folks,

I'm thinking of picking up the qrp antenna tuner kit from dans small parts.

Anyone here have any feedback on that? Thanks. 72,

John, KB1ENS

--

John Wagner - john@neknetwork.com  
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-----  
Date: Sat, 8 Apr 2000 19:49:43 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:al7fs@pobox.alaska.net" <al7fs@pobox.alaska.net>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.edu>  
Subject: [67485] AL7FS - Thanks for the QS0, Jim :-)  
Message-ID: <200004081953\_MC2-A057-F5B8@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain;  
charset=us-ascii  
Content-Disposition: inline

Jim:

Well conditions have been spotty all over, yet I managed to bag about 150

Q's or so, mostly on 20, in the 6 hours I have been on so. Gotta get back on there, as I have somehow been included on a team.

Guess I will get back on twenty until about 0400 or so, then again in the morning. After church may jump back on to the end. The other team members are N5IB and NA6E, so gotta hold up my end.

The thrill of the day was working YOU. I always feel it has been a great day when I hear your familiar call come back. Setup was the k2 to the huge loop. The TNT Window and Fritz have been working okay, too, but seems like the best results have come from the huge loop. Guess I need to try window line with it, just to see what might happen.

72,

--Doc Lindsey/K0EVZ

DSBF

PO BOX 6028

Bismarck, ND 58506

(Shipping: DSBF, 2020 Lovett Ave, Bismarck, ND 58504)

K0EVZ@arrl.net

-----  
Date: Sat, 8 Apr 2000 19:16:40 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [67486] HB: 1:1 Balun  
Message-ID: <200004082355.TAA04572@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Someone was asking about a core to use for a balun recently. I just took a ferite core off the cable that connects a monitor to a computer. There's usually two of them, one on each end. The one inside the monitor is easier to remove. It's about 1" long and 3/4" dia. I wound a four turn 1:1 balun on it and seems to handle 5 watts with no problem, very little loss on 40M and maybe 1/2 dB on 20.

I picked up some 75 ohm window twin lead last fall, to use to feed an antenna camping, so might use it for that. Although it probably would do okay with out a balun.

DI'd this between working a few of the "test" stations on 20M. QSB is nasty. Some signals were pretty strong though. Not much activity though, everyone not even trying because the numbers are bad?

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Sun, 9 Apr 2000 00:04:37 +0000  
From: nilsbull@juno.com  
To: QRP-L@lehigh.edu  
Subject: [67487] More Antenna Tuner Follies  
Message-ID: <20000409.000542.-181633.0.nilsbull@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Gang,

So today I took the Z-match apart & put the N7VE SWR indicator back in. I also rebuilt the standard toroid & diodes SWR doodad what everybody has in every antenna tuner but the kind you get with CB radios. I stole that modified circuit from the LDG tuner. It worked pretty cool.

Now this N7VE tuning indicator, him I put in before the SWR circuit (toroid thingie) so the transmitter would see something a little closer to 50 Ohms during the tuning process. In the process of that process I had some interesting epiphanies.

1. I used three 150 Ohm resistors in parallel for each of the 50 Ohm legs of the N7VE circuit. I used the coil winding info from KI7NM's web page after trying another version from somewhere that gave me funny readings. The coil from KI7NM's page gave me the same indications, so I left that alone for a moment.

What happened was easy enough: a low SWR reading on the meter of the (what is it? absorbativo? what? it's the one with the two diodes & the pots & capacitor to null out one side of the circuit) toroid thingie did not coincide with the minimum illumination of the LED on the N7VE circuit. This was true with either of the coils that I tried on the N7VE circuit.

When I removed the N7VE circuit & measured the resistances of the three legs, I got something around 43 Ohms on each side. My DL measures 55 Ohms on my Emco DVM. I figure that the difference in nulls between the N7VE & the "other" circuit is due to the difference between the resistance of the legs of the N7VE bridge & my 55 Ohm DL.

2. The main reason that I wanted to put the N7VE circuit in there was to be nice to the radio while the LDG tuner is going through its dance. With

5W into the tuner, the power reading on the K2 would wander between 19 W & 2 W. This also happens with the Z-match, but I have the approximate resonant frequencies marked on the front panel. The LDG doesn't have that kind of chart, so it tunes wildly until something good happens. Thus the need to be nice to the finals on the K2. Either tune at lower power (makes sense, so I do) or (and) tune through a resistive bridge like the N7VE indicator circuit. (Or the Rainbow Bridge from the NJ QRP gang).

3. I'm running out of real estate on/in the Z-match box. The game plan was to have the Z-match box be the interface between the LDG & the radio, but it's beginning to look like, given the way things work out & my desire not to have a complete collection of "every dang thing I might need" for mobile/beachside radio, that the N7VE indicator/bridge is going to have to find a home in a smaller box between radio & antenna cable.

I've already fixed up the charge controller/battery interconnect box so that it has the tune button & status indicator (plus power & ground) for the LDG tuner. The base/fixed power supply box also has the necessary button & diode & connector for that set up too.

So one more tiny box (maybe very small, if I'm lucky enough to figure out what the dimensions of the SESCO boxes) with the N7VE indicator & parts will go into the traveling case for this set up. (I still have room for the N7VE circuit in the charge controller box . . . although I'm reluctant to have all that stuff that close to each other under the circumstances.)

But I'll use real 52 Ohm resistors (or parallel 160 Ohm resistors) when I rebuild it for that job. Something to do on another rainy April day when 10m is opener than it has been for months.

73

Nils

. . . are we building & experimenting more than we get on the air now?  
what's with that?

-----

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes  
Sonrientes

<http://www6.50megs.com/w8ijn> -- W8IJN -- <http://members.xoom.com/nilsbull>

"In MY day we had to FIGHT to have signatures! Every DAY was a STRUGGLE!"

-- Comrade Nikolai Sergeievich

McTovarishov, 19 Oct 1917

-----  
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-----  
Date: Sat, 8 Apr 2000 20:08:19 -0500  
From: "Randall" <Firefox@Southwind.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [67488] Re: antenna tuner from dan's small parts  
Message-ID: <00e501bfa1c0\$18a32100\$6a5986d1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'd like to hear about that too.

----- Original Message -----  
From: <john@neknetwork.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Saturday, April 08, 2000 6:28 PM  
Subject: antenna tuner from dan's small parts

> Hi Folks,  
>  
> I'm thinking of picking up the qrp antenna tuner kit from dans small  
> parts.  
>  
> Anyone here have any feedback on that? Thanks. 72,  
>  
> John, KB1ENS  
> --  
> John Wagner - john@neknetwork.com  
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> Network Administration  
>

-----  
Date: Sat, 08 Apr 2000 21:25:05 EDT  
From: "Kent, AE4Y" <ae4y@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [67489] Re: Spring QSO Party

Message-ID: <20000409012505.68391.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Band conditions aren't the greatest, but there seems to be quite a few stations working in the QRP QSO Party.

My biggest problem is the high winds here in Georgia. It managed to knock down my dipole about an hour after the contest started, so I had to spend a little downtime throwing fishing line over the big oak tree in the back yard.

Kent, AE4Y

QRP ARCI #4175    QRP-L #1844    SOC #197  
Visit: <http://www.qsl.net/ae4y/>

>From: "Ron Polityka" <wb3aal@talon.net>  
>Reply-To: wb3aal@talon.net  
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
>Subject: Spring QSO Party  
>Date: Sat, 8 Apr 2000 14:17:54 -0400  
>  
>Band conditions are bad on the higher bands.  
>If I worked you, thanks for you patients.  
>QRN bad hr.  
>  
>72 & 73  
>Good DXing  
>  
>Ron Polityka  
>de WB3AAL  
>wb3aal@talon.net  
>  
>vvv Eastern Pennsylvania QRP Web Page vvv  
>                          <http://www.n3epa.org>  
>Eastern Pennsylvania QRP Club Call  
>N3EPA    E-mail address: [n3epa@talon.net](mailto:n3epa@talon.net)  
>  
>EPA QRP #1                            NJ QRP #179  
>KL7 QRP # 309                        G-QRP # 3031  
>ARCI QRP # 5318                      10 - X #13173  
>NorCal                                Zombie #625  
>ARS # 380                             HI-QRP #153  
>VA QRP Society  
>



-----  
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-----  
Date: Sat, 08 Apr 2000 22:22:40 -0400  
From: S LYON <sslyon@worldnet.att.net>  
To: chat qrp <qrp-1@Lehigh.EDU>  
Subject: [67490] Propagation/Popcorn  
Message-ID: <38EFE970.BD09648@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Worked about 60 Q's today (900 mW to 90' E.D.Z. @ 60') Man... this EDZ is a Rifle! Seems like more than 6db better than the old dipole. Very sporadic op time today. Observed the propagation. Don't think I've experienced such a dramatic "wet blanket" effect before -at least not on 40m & 20m. What was really intriguing was that from what appeared to be a really cooked-out band an occasional kernel would pop -like a VE6 or W7. (from here in NY) Sure would like to see some graphics guru render that phoneme in 3-D over time.

I'll be able to get some concentrated time in tomorrow -after 1400 local -if the weather cooperates.

=s=

--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Sat, 8 Apr 2000 21:14:49 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "'w9zm@yahoo.com'" <w9zm@yahoo.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [67491] RE: Beam  
Message-ID: <01BFA19F.7A318180.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

When I wanted a beam but didn't want to shell out for a tower, I used a two element boomless quad. I only put up elements for 10 and 15, but I think the pole could have handled 10/15/20.

(I was using home grown Arkansas cane (bamboo) and don't think I could find 'em long enough for 20.)

This was a great antenna back during the great sunspot boom of 1979 & 80 and I made my DXCC the easy way riding that quad and the sunspots. And I could turn it with an AR-22 type TV rotor.

72,

Nick, WA5BDU

From: Duane Alles [SMTP:w9zm@yahoo.com]  
Subject: Re: Beam

Sri, I should have mentioned. I'd like a tribander 10  
- 20 if possible..

--- Al Patrick <arp@inet4u.com> wrote:

-----

Date: Sun, 9 Apr 2000 02:34:16 -0000  
From: "Mark Hogan" <mhogan@email.msn.com>  
To: <n5wu@worldnet.att.net>  
Cc: <qrp-l@Lehigh.EDU>  
Subject: [67492] Re: Fw: Norcal QRPP -WINTER ISSUE  
Message-ID: <007a01bfa1cc\$230f7880\$9ee90181@cityweb.gov>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just got back from ArkiCon  
Both Doug Hendricks and Paul Hardin were there. Doug's Dr would not let him do any work after the heart surgery, so Paul has put the winter issue together. It will be out soon, be patient, they are busy.

Remember If I heard this right the above is true, (I think Its right or I would not cc the list)

Mark Hogan N50BC

SST-40 / 38s Speed-X Bug  
NC-20 / FT847 NorCal Keyer  
Zombie 660, SOC 185, G-QRP 4972, all that junk...

----- Original Message -----

From: Sam Stimson <n5wu@worldnet.att.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Saturday, April 08, 2000 1:24 PM  
Subject: Re: Fw: Norcal QRPp Journal and OTHER'S ...??

> I notice that you did not answer me, the original complainer.....My check  
> for \$30 (2 years) was sent to Jim Cates on 10/8, so that I would be a  
member  
> for the Zombie Shuffle. I have received numerous emails from others,  
> providing various excuses, but never anything in the mail and never any  
> publication, quarterly or not.....I am really pretty disgruntled at this  
> point....

>  
> Sam  
> N5WU  
>

> ----- Original Message -----

> From: markmilburn <markmilburn@netzero.net>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Sent: Saturday, April 08, 2000 7:03 AM  
> Subject: Re: Fw: Norcal QRPp Journal and OTHER'S ...??

>  
>

> >  
> > Ron, you joined QRP ARCI in February 2000. Since the QRP Quarterly  
> > magazine is (as it says) a quarterly magazine, they are sent out every  
> > three months, so your first issue would be the first one out after you  
> > sent in your membership application. Your subscription starts with the  
> > April 2000 issue which is due out this month.

> >  
> > 72  
> >

> > Mark Milburn, KQ0I  
> > Secretary/Treasurer  
> > QRP ARCI

> >  
> >

> > Ron White wrote:

> > >  
> > > I joined NORCAL, ARCI and NJQRP at the same time a while back. I've  
> > > received two Homebrewers from NJQRP and a membership certificate from  
> > > ARCI.

> > > Boy, I hope I receive the newsletters from the other two!  
> > > Ron, WA0MWW  
> > >  
> > > ----- Original Message -----  
> > > From: Sam Stimson <n5wu@worldnet.att.net>  
> > > To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> > > Sent: Friday, April 07, 2000 6:33 PM  
> > > Subject: Re: Norcal QRPp Journal and OTHER'S ...??  
> > >  
> > > > Good luck. I joined almost 9 months ago (2 year subscription) and  
> haven't  
> > > > received anything from them yet. Just a few broken promises through  
> email.  
> > > > It must be a California thing.....  
> > > >  
> > > > Sam  
> > > > N5WU  
> > > >  
> > > > ----- Original Message -----  
> > > > From: Andy GM0NWI <Gm0nwi@tesco.net>  
> > > > To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> > > > Sent: Monday, April 03, 2000 2:57 AM  
> > > > Subject: Norcal QRPp Journal and OTHER'S ...??  
> > > >  
> > > >  
> > > > > Guy's .....  
> > > > >  
> > > > > How does a fine "up-standin" (when helped)...  
> > > > > guy like me get info on the Norcal Journal...??  
> > > > >  
> > > > > YEAH... can go to a URL ...but this isn't really  
> > > > > gonna "give me the feel" for the journal...  
> > > > >  
> > > > > Do they send ...example..."back issues"..?  
> > > > >  
> > > > > Would love to hear of anythin' that may help...  
> > > > > You'll all mostly be aware of my physical position  
> > > > > (wheelchair bound) and thus find "ham radio" and  
> > > > > "home-brewin'.." slightly on another plain than my  
> > > > > able-bodied "compadrias" so excitin'...would love  
> > > > > to think about joinin' one of the US groups  
> > > > > (if they'd have me..)  
> > > > >  
> > > > > I feel that all the recent postin's on "first kit" "first antenna"  
> > > > > etc...stirred up so much passion within me.... I'm the first  
> > > > > to admit my "homebrew" skills are rrrreeeeaaalllll bad...but  
> > > > > you're all helpin' in such a BIG way for me...what with  
> > > > > the "Heathkit" saga that I am sure you are all aware of...

```
> > > > >
> > > > > There are still those out there that are adiment on spoilin`
> > > > > things tho`....still I will "raise and over come"...
> > > > >
> > > > > If anyone can help put me intouch with the correct people
> > > > > here on the list ....would be grateful....
> > > > >
> > > > > Keep up the great work.... you`re all such a source of
> > > > > inspiration for me .....
> > > > >
> > > > > 72s de Andy                                "The Weakest Station In The Nation.."
> > > > > GM0NWI                                gm0nwi@tesco.net
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> >
> > -----
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> >
>
```

Date: Sat, 8 Apr 2000 22:39:06 -0400  
From: "George Heron N2APB" <n2apb@erols.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [67493] ArkieCon reports ...please!!  
Message-ID: <014301bfa1cc\$c7d21ee0\$ca59accf@ire.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

So tell us ... how is ArkieCon going in its first night?! Those of us who couldn't make it are just aching to hear about the QRP projects 'n such on display during the hospitality suite, any hints at kit/project announcements, etc??

There are some wonderful QRP things happening over there in Fort Smith this weekend ... can't wait to hear more!

73, George N2APB

----- Original Message -----

From: Mark Hogan <mhogan@email.msn.com>

>Just got back from ArkiCon

>Both Doug Hendricks and Paul Hardin were there.

[snip]

-----  
Date: Sat, 08 Apr 2000 22:29:02 -0500

From: "Steve Yates, AA5TB" <aa5tb@swbell.net>

To: QRP-L Distribute <qrp-l@Lehigh.EDU>

Subject: [67494] Re: Propagation

Message-ID: <003401bfa1d3\$c0b7b6e0\$75773ed8@aa5tb>

MIME-version: 1.0

Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Yes, the bands are much worse then normal. But I still worked OK1FDY in the Czech Republic at 0027 UTC. I was using 5W, my 3 foot diameter loop up 2 feet from the ground underneath a big pine tree and on 20m CW!

Don't let the "numbers" keep you off of the air.

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

-----  
Date: Sat, 8 Apr 2000 22:30:27 -0500

From: "M. Pender" <steam@megsinet.net>

To: "QRP-L discussion list" <qrp-l@lehigh.edu>

Cc: "John Porzelt N9UKX" <ukii@megsinet.net>

Subject: [67495] Emtech NW-40 project started. (long)

Message-ID: <004e01bfa1d4\$0df28700\$8fcd6d8@megsinet.net>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="Windows-1252"

Content-Transfer-Encoding: quoted-printable

Hi all.=20

I guess I should start by mentioning that I'm pretty new to qrp and extremely new at kit building.

After completing the OHR WM-2 qrp wattmeter first, then the Emtech ZM-2 qrp antenna tuner second, I figured my feet were wet enough to have a go at the Emtech=20 NW-40 transceiver.=20

I had a request (more like a dare) by John, N9UKX to post=20 status reports here on the list as I assembled and tested=20 this kit. If interest is shown, I'll continue to post updates as=20 I progress. If this will just be repeating what has been=20 posted here in the past, let me know and I'll just finish the=20 rig without the posts. I'm quite sure that before the rig is=20 complete, I'll run into some snags and need some guidance.

Let me start by mentioning that Scott and Charity at Emtech are top notch to deal with. I'm sure that I'll be dealing with them again in the future, and I would highly recommend Emtech for QRP kits.

On to the kit....

I started by winding the toroids. On page one, the instructions say that on L1, there is a tap 4 turns from the starting point. The picture shows what looks like a tap after the fifth turn. This threw=20 me until I saw the much better detail of this toroid on page=20 seven. That one clearly shows the tap between the fourth and fifth wraps. Whew..... time to melt some solder.

I installed the components for the VFO. All was fine till I got=20 down to the last component. CV, a 33pf capacitor. I was out of parts. Hmmm. Well, it turns out that I had used the 33pf cap in place of the 330 cap at C41. C41 says to look up the=20 value on the bands table. On the bands table, C41 is listed=20 simply as "330", so,,,,,, OF COURSE I installed the cap marked 330 in C41, which left me short the 33pf cap (marked 330) for CV!!

Reading ahead in the trouble shooting section, mention is made of the ambiguity of markings on the caps. 33pf is marked 330,=20 330pf is marked 331. This discrepancy is stated on page 2, and=20 again in trouble shooting. I don't know why this wasn't simply stated=20 right in the bands table to begin with to save confusion. Adding to the confusion was that the 330pf cap wasn't in the vfo bag, it was in the 40m band bag. A mention of this on page seven sure would have been helpful. I'll have to really make sure of the right cap=20 markings from now on!!!=20

Mounting of the main tuning Cap, C35, calls for 1/4" 4-40 screws. Well, only 3/8" ones were in the hardware bag, so I cut a couple=20 from my junk drawer down to 1/4". Use of 3/8" here pushes the=20 screw into the fins of the Cap. That's not good.=20

On to testing the VFO circuit....

I applied power with the 22 ohm resistor as a current limiter, placed the board next to the ZM-2 tuner which is hooked up to my Kenwood 440 hf rig and tuned between 4.8-5 mhz. (the listed tuning range for=20

40 meters.) Nothing. Hmmm. A little tweaking on the C36 trimmer=20  
brought it in to 4.925mhz. Close enough to center for now.=20  
Well, that's it for now. The keying circuit is next. I'm happy as can =  
be  
so far. I've learned to take my time and really watch component  
values and markings!! Maybe I'm being over zealous being a=20  
new builder of kits, but that little circuit was a triumph for me!=20  
It'll be a while before I see a K2 on my bench. heehee

72... Mike, N9IV0  
=20

<>< ><> ><> <>< ><> <>< ><> <>< ><> ><  
Mike Pender Chicago N9IV0  
steam@corecomm.net <http://www.megsinet.com/~steam> =20  
><> <>< ><> ><> <>< ><> ><> <>< ><> ><> <>

-----  
Date: Sat, 8 Apr 2000 21:34:11 -0600  
From: Nate Bushnell <nateb@ecentral.com>  
To: qrp-l radio list <qrp-l@lehigh.edu>  
Subject: [67496] Kit for trade or sale. QRP  
Message-ID: <l03130301b515a049056f@[206.64.70.152]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I have a NorCal 20 kit, new, never built, unopened box. Would like  
to swap.  
Want an MFJ 9015 15M XCvr. , preferably built and working.

-----  
Date: Sat, 8 Apr 2000 23:40:47 EDT  
From: WD6BOR@aol.com  
To: qrp-l@lehigh.edu  
Subject: [67497] VOMARC Hamfest + QRPTTF  
Message-ID: <86.21b8927.262155bf@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Gang,



The Valley of the Moon ARC is hosting their annual hamfest on Saturday, April 29. That's right, we will be on the air with a QRP demonstration station on QRPTTF day. While there is a creek a couple hundred yards away, the station will be inside, operating from a battery into a G5RV running from the flagpole in front of the Sonoma Valley Veterans' building to a nice tall tree in the back. We have been doing this for years and have had the good fortune to have QRPTTF on the same day since it began.

If any of you are in the San Francisco Bay area and would like to come up and join us, we will have breakfast going from 8 to 10, a VE session starting at 9, a swap meet starting at 8 and the QRP station running. Drop on in, mention QRP and take a turn at the key. Jim Hill, K6UUW, will have his Norcal 20 and I will have an original Norcal 40 as the stations. Admission is free, Swap spaces are \$10 and breakfast is \$5. Directions are in QST, 73, Worldradio and CQ.

See you there!

Darrel, WD6BOR

-----  
Date: Sat, 8 Apr 2000 23:54:03 -0500  
From: "Bob Helms" <af5z@inetport.com>  
To: <n5wu@worldnet.att.net>, "QRP-L Reflector" <qrp-l@lehigh.edu>  
Cc: "Jim Cates" <WA6GER@aol.com>  
Subject: [67498] Re: Norcal QRPP Journal and OTHER's ...??  
Message-ID: <200004090454.XAA14468@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Sam, Jim and friends,

Sam - You've increased my blood pressure considerably! Let's see if I can communicate yet remain respectful....

As a member of Norcal for over 6 years and having met both Doug Hendricks, KI6DS and Jim Cates, WA6GER personally - - I take strong offense that either of them intentionally took your subscription money and NOT sent you QRPP. You state you haven't received the newsletters, and I'm sure although that is true - - There is some miscommunication or oversight in the handling of your subscription.

I can't personally provide you with the back issues nor even future ones directly but I CAN REFUND YOUR \$30 ON BEHALF OF NORCAL. I ASK THAT YOU DO TWO THINGS:

1. Contact Jim Cates, WA6GER directly by either mail, phone or email to hear his side of the story and provide any information he requests.
2. DO NOT further criticize Norcal, a several hundred member organization that makes up a sizeable percentage of the 3,000 people that see this reflector daily.

If you honor the above two conditions and have not received actions to your satisfaction within two weeks (April 22) - Send me a personal email with the address and I'll refund your \$30 in full.

Please understand - I'm only a NORCAL member but I feel strongly enough to offer this knowing full well that the matter will be resolved properly.

Bob Helms, AF5Z  
af5z@inetport.com

- - - -

Date: Fri, 7 Apr 2000 18:33:13 -0500  
From: "Sam Stimson" <n5wu@worldnet.att.net>  
To: <Gm0nwi@tesco.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [67422] Re: Norcal QRPp Journal and OTHER'S ...??  
Message-ID: <000f01bfa0e9\$a5951be0\$75064a0c@211172425>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Good luck. I joined almost 9 months ago (2 year subscription) and haven't received anything from them yet. Just a few broken promises through email. It must be a California thing.....

Sam  
N5WU

-----

Date: Sat, 8 Apr 2000 22:22:50 -0700  
From: "K7FD-N7SG" <cqdx@teleport.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [67499] Re: Norcal QRPp Journal and OTHER's ...??  
Message-ID: <002301bfa1e3\$a81ec460\$83241ad8@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I must have gotten Sam's copy of the QRPp Journal, as I got two copies last time!! But already gave the extra copy to the local high school ham club...

Hopefully it'll get resolved...it's a great magazine...

73 John K7FD

>Hi Sam, Jim and friends,

>

>Sam - You've increased my blood pressure considerably! Let's see if I  
>can communicate yet remain respectful....

>

>As a member of Norcal for over 6 years and having met both Doug Hendricks,  
>KI6DS and Jim Cates, WA6GER personally - - I take strong offense that  
>either of them intentionally took your subscription money and NOT sent  
>you QRPp. You state you haven't received the newsletters, and I'm sure  
>although that is true - - There is some miscommunication or oversight  
>in the handling of your subscription.

>

>I can't personally provide you with the back issues nor even future  
>ones directly but I CAN REFUND YOUR \$30 ON BEHALF OF NORCAL. I ASK  
>THAT YOU DO TWO THINGS:

>

> 1. Contact Jim Cates, WA6GER directly by either mail, phone  
> or email to hear his side of the story and provide any information  
> he requests.  
> 2. DO NOT further criticize Norcal, a several hundred member  
> organization that makes up a sizeable percentage of the 3,000  
> people that see this reflector daily.

>

>If you honor the above two conditions and have not received actions to  
>your satisfaction within two weeks (April 22) - Send me a personal email  
>with the address and I'll refund your \$30 in full.

>

>Please understand - I'm only a NORCAL member but I feel strongly enough  
>to offer this knowing full well that the matter will be resolved properly.

>

>Bob Helms, AF5Z  
>af5z@inetport.com

>Good luck. I joined almost 9 months ago (2 year subscription) and haven't  
>received anything from them yet. Just a few broken promises through email.  
>It must be a California thing.....

>  
>Sam  
>N5WU  
>

-----  
Date: Sat, 8 Apr 2000 23:24:41 -0600  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: "qrp-1" <qrp-1@Lehigh.EDU>, <elecraft@ns3.qth.net>  
Subject: [67500] K2 Mojo VS K the propagation index  
Message-ID: <00a201bfa1e4\$0611aba0\$cb101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well taking a break from the QRP-ARCI QSO Party. Since propagation is, well, um, ahh, not as good as it could be, I've taken a laid back approach to this event. Air time, chore time, air time, walk the dog,...etc. Got about 4 hours of OP time and about 45 contacts, on 20, 15 & 10. LOTS OF FAMILIAR CALLS, lots of fun, lots of K2 Mojo!

Last night, um early this morning abt 3am, I finished up the K2 ATU, NB mod and numerous other tweaks on good old K2 #286. It sure is nice to have enough confidence in a rig to be able to tear into it a few hours before a contest. Mojo 1, K the prop index 0.

With the ATU, the K2 is a "lean mean QSO Party machine". Changing bands is a snap, with the way the KAT2 save settings. When K the prop index renders a band unusable, hit the band +/- \_BANG\_ a second later your ready to go! K2 Mojo 1 K the prop index 0

The K2 keyer is a contesters dream, I have memories set up for the CQ and the closing (QSL TU GL 72...). So if K2 the prop index gets the upper hand I can call CQ over & over while I do other stuff in the shack. Sooner or later somebody will hear, KH6U and AL7FS did! That's Hawaii & Alaska folks. K2 Mojo 1 K the prop index 0.

While time to get back to all the static. K the prop index 1 K2 mojo 0  
;-) ( but I'm sure, this very moment, in a secret lab somewhere in the desert, a team of Elecraft Mojo wizards are working on the problem.  
;-)

See you on the air. If you call and I don't answer right away, keep trying, I'm probably in auto pilot and fell asleep. ;-)

BTW: KH6U is my first ever HI QRP contact. If I don't make another QSO in this event it's still a big success for me!

Look out "K" hear comes more mojo from K2 #286!

---

72/3 Rod, NØRC -- Fort Collins, CO            GOT MY MOJO WORKIN', Willie  
Dixon

PS SRI I did copy you NR Bruce the QSB ate you up but there is plenty of time left.

-----

Date: Sat, 8 Apr 2000 20:16:44 -0400  
From: Bruce G Shaw <bruceshaw@juno.com>  
To: Firefox@Southwind.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [67501] Re: antenna tuner from dan's small parts  
Message-ID: <20000409.080707.-307427.0.bruceshaw@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Ditto - it seems like a good price for a tuner.  
Bruce Shaw  
kg4dzu

On Sat, 8 Apr 2000 20:08:19 -0500 "Randall" <Firefox@Southwind.net> writes:

>

> I'd like to hear about that too.

>

>

> ----- Original Message -----

> From: <john@neknetwork.com>

> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

> Sent: Saturday, April 08, 2000 6:28 PM

> Subject: antenna tuner from dan's small parts

>

>

> > Hi Folks,

> >

> > I'm thinking of picking up the qrp antenna tuner kit from dans

> small

> > parts.  
> >  
> > Anyone here have any feedback on that? Thanks. 72,  
> >  
> > John, KB1ENS  
> > --  
> > John Wagner - john@neknetwork.com  
> > Web page: <http://www.neknetwork.com>  
> > Affordable web site hosting under your domain name!  
> > C/C++, Perl, CGI, RDBMS, Web site creation and  
> > Network Administration  
> >  
>

-----  
Date: Sun, 9 Apr 2000 08:18:04 EDT  
From: Macstein@aol.com  
To: qrp-1@lehigh.edu  
Subject: [67502] West Florida QRP Meeting - building stuff!  
Message-ID: <8.368ce1c.2621cefc@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In spite of my haphazard parts ordering and boxing, the club Manhattan building project has begun. What a hoot to see so many people gluing pads to their bodies (instead of the PCB) and smelling all that solder/superglue. (Good ventilation is a must -- that and doughnuts WHICH, happily he reports, were there.)

My hat is off to NorCal, NJ QRP, Ft. Smith, CQRP and other volunteer kiting groups. What an interesting experience! Family interruptions and no sleep make this a real challenge..but we persevered! This was not a "public" offering, but word has gotten out and we will share what we have! We are experimenting with the TT2/MRX/SMK-1 combo Manhattan style. Hopefully we can collect mods and put 'em on our web site. To get an idea, look at Joe Everhart's article in the last issue of QRP HOMEBREWER.

Welcome to new people! Carrie, KF6Y0I, Brian KF6Y0J (some Calif. transplants to the Sunshine State), Jared KG4???, Matt KG4??? and Rick KG4FER from Orlando (sorry don't have their calls memorized yet.)

Bill, W4STX had a very COOL way to template the pads on the PCB. Lots of people looking over his shoulder and copying.

Steve Cohen N30IE was feverishly working on this K2ATU, and had his test equipment set up, but nobody got that far in construction - due to the

unorganized way I was distributing stuff -- the best laid plans..... Steve is a real treasure.

My sincere appreciation goes to Mike Maiorana, KU4QO and Bob Engelman WB8UOJ, who helped with the draft of the Info-Manual. These guys are whizzes and very generous with their time and good advice.

NEXT Month, we will have working rigs and are planing one of those indoor Fox hunts with dummy loads! Come join us if you can make it! First Saturday of the Month, 10 am at the TARC/TBARS Club house in Tampa.

72

-MAC-  
AF4PS

-----  
Date: Sun, 09 Apr 2000 06:07:42 -0700  
From: John Paul Dooley <w6zip@gte.net>  
To: QRP-L@Lehigh.EDU  
Subject: [67503] QRP Mod?  
Message-ID: <38F0809D.1AC5F482@gte.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Guys, I'm new. That's easy to understand for both of us, but while I consider my intent in posting this to the list, I have a few options yet before going full-on and buying that new QRP rig I have had my eye on. I have nothing but admiration for CW, QRP, and the quality and quantity of good CW Rigs, and what-not. How do I make a choice? My only true experience is some great first CW QSO's on and around 7.108 thru 7.122 after obtaining my Tech+, Iam really impressed by accurate exchanges as well as courteous individuals, and those that are willing to be patient to those who are trying their hardest to become proficient CW operators. I really would like to participate right now (some QRP contests, QSO's), but all I have is my TS-120S ( no WARC though) or my TS-440SAT ( yes WARC). To get down to real (CONFIRMED) QRP levels, I would probably need a talk-in to make adjustments to one or both of the rigs. Can someone offer some good Elmering to tweak those rigs? I remember someone posted something yesterday or the day before in reference to the adjustment necessary, but I have since deleted that posting from my browser. I'm not really concerned about losing max pwer off the top of one or both of my rigs, and I have a really good accurate meter. I enjoyed reading a bit about signal strength verses output power levels in the ARRL's Stealth Operators Handbook, and feel that with my community CC&R's this would also be something for me to work with. After all, it would be nice to know that I was within standards if I chance to accurately send some

of that crack keying during an upcoming QRP contest and have confirmed 100% exchange to be sure. I would be most grateful, and perhaps in the ball park. thanks -72

Also, I think that WE6W has got it goin' on with providing incentive++ to the new and improved guys. (Sorry, can't remember his full name) Please have some admiration for that gentleman, that kind of selfless attitude keeps people inspired with the spirit of things at hand. my hat's off to WE6W--

FROM THE HIGH DESERT OF SOUTHERN CALIFORNIA, WHERE HAVE ALL THE MOUNTAIN-TOPPERS GONE?

W6Zip

-----  
Date: Sun, 09 Apr 2000 06:09:30 -0700  
From: John Paul Dooley <w6zip@gte.net>  
To: QRP-L@Lehigh.EDU  
Subject: [67504] Someone's stray RF is wondering-  
Message-ID: <38F08109.C530D389@gte.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Can anyone tell me how to keep stray RF from affecting my SM Tick Keyer (Tick-2) when I run higher than QRP levels through my rig? I have tried shielded cable from the keyer to the rig, but wouldn't be suprised if it was getting in through the battery leads, or just straight through the unsheilded plastic enclosure. However it's getting in, it goes crazy when I try to key-up with more than about 10 or 15 watts, also affects the side tone, Did someone say something about a sick mule?, but that's small beans compared to what my keyer does. It's a wonder I haven't sent the thing to an early grave. I hear that the EMB with the Tick-4 has something to prevent this, but to be frank, I don't know that much about circuitry. Anybody got a fix? Sure hate to loose this one. It works great with my AEA DX Handy on 28 MHz (2 watts output) with my home-brew paddles. I'd like to use this set on the big senders. Thanks for any Techno-ology.

FROM THE HIGH DESERT OF SOUTHERN CALIFORNIA, WHERE HAVE ALL THE MOUNTAIN-TOPPERS GONE?

W6Zip



-----  
Date: Sun, 9 Apr 2000 06:22:42 -0700 (PDT)  
From: Dave Pomeroy <dave\_pomeroy@yahoo.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [67505] ham radio computer programmer's page  
Message-ID: <20000409132242.6370.qmail@web1105.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

There was a post a fews days ago and I didn't keep it.  
I am looking for the URL for this page. Anybody mark  
it or remember it? Thanks for your time.

=====

Dave Pomeroy K8DNP Southwest Michigan

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Sun, 09 Apr 2000 13:31:45 -0700  
From: dave.g0dja@psilink.co.uk (David J. Ackrill)  
To: qrp-1@lehigh.edu  
Subject: [67506] Re: Major Geomagnetic Storm  
Message-ID: <E12eHms-0001GR-00@relay1.mail.uk.psi.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Yes, the bands are not very good!  
>Particulars are at:  
>[http://spacescience.com/headlines/y2000/ast07apr\\_2m.htm](http://spacescience.com/headlines/y2000/ast07apr_2m.htm)

Eh? 2M and 6M would, no doubt, have been great for DX. I've even managed  
to work DX on 6M and 2M whilst running QRP power levels, during an Aurora.

One mans meat, etc.

Or, perhaps you meant 'The bands that I like to work are not very good, at  
the moment'?

; -)

Cheers de Dave (G0DJA)

-----  
Date: Sun, 09 Apr 2000 08:44:13 -0500  
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>  
To: w6zip@gte.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [67507] Re: Someone's stray RF is wondering-  
Message-ID: <001901bfa229\$b1b43780\$7a773ed8@aa5tb>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

John,

Welcome to the list! This list and QRP are a lot of fun.

The plastic case on your SM Tick Keyer will make it a little bit more difficult to bypass the stray RF. Often times, a 0.01uF capacitor from each conductor to chassis ground will suffice. This may be possible at the keyer PC board itself. If not, you may try simply coiling up some of the wires right up against where each wires leads into the keyer. If available, you may try ferrite beads (maybe like the clamp on ones Radio Shack sells) and just put one on each cable up near the keyer. At these relative long wavelengths it is unlikely that the plastic box itself is the problem. It just makes RF bypassing of the cables, which are the problem, difficult. The cables tend to act as antennas that pick up the RF and conduct it into the keyer via "common mode" currents.

You really shouldn't have that much RF in the shack at those powers levels. Maybe something can be done about your antenna system to minimize the RF pickup by your keyer. I wonder what kind of antenna system you are using?

I hope to work you on the air.

73,  
Steve Yates - AA5TB  
Fort Worth, TX - EM12gs  
<http://home.swbell.net/aa5tb>

-----  
Date: Sun, 9 Apr 2000 09:50:52 EDT  
From: Wb8siw@aol.com  
To: w6zip@gte.net, qrp-1@lehigh.edu

Subject: [67508] Re: Someone's stray RF is wondering-  
Message-ID: <e4.3784f69.2621e4bc@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 04/09/2000 9:10:29 AM Eastern Daylight Time, w6zip@gte.net writes:

<< Can anyone tell me how to keep stray RF from affecting my SM Tick Keyer (Tick-2) when I run higher than QRP levels through my rig? I have tried shielded cable from the keyer to the rig, but wouldn't be suprised if it was getting in through the battery leads, or just straight through the unsheilded plastic enclosure. >>

Hi John:

A couple of thoughts, although they may seem obvious.

Yes, it may be a lack of shielding in the enclosure. I wonder if one or two of folks on the list-serve can recommend a conductive metalic paint which one could use on the inside of the plastic enclosure. I have utilized this before to cut down on computer noise.

If the RF is coming over the power leads, here are a couple of thoughts (they may be obvious, but it can't hurt):

1) I have utilized ferromagnetic toroids manufactured by Amidon Associates. They make a variety of these devices in various sizes, suitable for RFI suppression at a variety of frequency ranges. You simply purchase a suitable size (based on wire diameter and frequency), and wind your power and control leads around the device a number of times to achieve a reasonable level of impedance.

I have utilized these devices to keep RFI out of telephones, computer switching supplies, and similar devices. I have also experienced good success in environments with power levels up to 50 KW (no, not on the ham bands! LOL).

2) Again, perhaps obvious, but power leads certainly can be bypassed by 0.01 mF capacitors. This is a very old trick, probably dating back to the '20s, but it might make a difference in your case. I'm not familiar with the keyer being utilized.

Anyway, if you want some information on model numbers/frequency ranges, and so forth for Amidon products, let me know and I'll dig out a catalog.

Hope that helps, and good luck!

73, Jim

-----  
Date: Mon, 10 Apr 2000 10:01:17 -0400  
From: "Mark Kesner" <marklori@visuallink.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [67509] Broken Bug Help  
Message-ID: <002f01bfa2f5\$5a557360\$9b4297ce@marklori>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I finally found out what happened to my missing bug. It fell off the back of the desk and was broken! I found a list of parts for it on the Vibroplex site, but without a diagram to identify the parts I'm not sure what to order. The bug is a Champion Standard model. The missing parts are whatever it takes to hold the arm on the top of the frame. I just have a hole there. All else appears to be intact. Thanks in advance for any help.

Mark  
KC4GIA  
Winchester, VA

-----  
Date: Sun, 09 Apr 2000 09:11:29 -0500  
From: "Chuck Carpenter" <w5usj@globeco.net>  
To: dave.g0dja@psilink.co.uk, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [67510] Re: Major Geomagnetic Storm  
Message-ID: <3.0.2.32.20000409091129.007c4b90@mail.globeco.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Good point Dave,

>

>Eh? 2M and 6M would, no doubt, have been great for DX. I've even managed  
>to work DX on 6M and 2M whilst running QRP power levels, during an Aurora.

>

I worked my best 6M DX ever the other day when you couldn't hear much of anything on the HF bands.

Chuck Carpenter, Point, Rains County, Texas -- EM22cv, RARA #003  
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

-----  
Date: Sun, 9 Apr 2000 14:50:23 -0000  
From: "Mark Hogan" <mhogan@email.msn.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [67511] RE: Norcal QRPp -WINTER ISSUE  
Message-ID: <016c01bfa232\$f033e2e0\$9ee90181@cityweb.gov>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

OK sorry for butting in.  
The fall issue shipped late, cause thats when Dougs heart deal broke out...I  
think If you email him direct he may be able to get things lined out. If  
you already did that (and or Jim Cates) then I really don't know what to  
tell you.

They are a very busy bunch of VOLUNTEERS, and the new kit may be overloading  
things right now. From what I saw this weekend they are nice guys Doug's a  
Basketball Coach and teacher, and Paul is a sciensist at the radiotelescope  
lab. I don't think they would take your money for no return.

I hope they straighten it out...

Good Luck see ya on the bands  
Mark Hogan

-----  
Date: Sun, 9 Apr 2000 10:19:11 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@Lehigh.EDU>  
Subject: [67512] ArkieCon: Big Fun for QRPers!  
Message-ID: <01BFA20D.0D1F68A0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I'll have to wait for the official assessment from Jay(bob) and (hangin' judge) Kelsey, but ArkieCon looked like a big success to me.

I'm not sure how to measure success, but I do know that this is the longest I've ever stayed at a hamfest (even including one I helped put on). Plus, I'm usually too fidgetty to attend forums, but these presenters are something special. I did have to take out a little time to browse the tables, but I managed to attend almost all of the forums and got something out of all of them.

Paul Harden always gives out valuable technical insights, but he also throws in a few other interesting gems. Like getting to meet Jodie Foster. And the time he (almost) sacrificed Doug to the Mexican authorities during a QRP field event. And even explaining Jello to UKers.

Doug's talk on the \$50 station (including antenna, tuner and keyer) was really slick. But Doug--where were you in 1962? I sure could have used a good \$50 solution back then. Doug passed around the SMT pixie/mrx-40 for our amazement. Reading glasses and jeweler's loupes came out for inspection. The little enclosures made of circuit board material were just too cute for words. (The tuner was in one of these enclosures too.)

Glen Leinweber (Arkies can't pronounce it or spell it) gave a talk on "green" radios. Those that are friendly to your battery. He started off small with efficient speakers and headphones and voltage regulators. Then he got to his prototype amplifier circuits offering up to 90% efficiency.

I say prototype because one is what Glen calls a "one dah" transmitter. You press the key once and it doesn't unkey until the battery dies. But it's a work in progress and Glen is gonna put schematics on his web site, as soon as he can remember what the URL is. I'm going to have to do some serious thinking about how Glen increases voltage swing and thereby efficiency by reducing the size of the Vcc supply choke. That one oughta generate some good QRP-L discussions. Glen probably felt like he was still in Canada, cause it was pretty cold all weekend.

Dr. Megacycle and Dave Gaulding gave really good antenna talks to near full house crowds.

Hope I haven't forgotten anyone. I'm still a little dazed. Oh yeah, to prove that he's not cheap (who would have thought that?), Doug gave out really nice spiral bound ArkieCon commemorative QRP logbooks. Thanks, Doug.

The Fort Smith crew unveiled their new project. A tick keyer including paddle and mini-speaker all built on a tiny board that can fit in an Altoids can. Pretty slick.

The free barbecue may have had something to do with it, but by the time 6 PM rolled around, I counted around fifty QRPers still hanging around

talking and playing with the little rigs.

Two downers: (1) I didn't win the K2. and (2) My Zombie Shuffle badge didn't get here in time for ArkieCon. I'll wear it next year.

Thanks a lot Jay and Kelsey and the rest of the FS group, and also thanks to all of the imported talent. I'd been looking forward to this one for a long time and I wasn't disappointed to say the least.

72,

Nick, WA5BDU

-----  
Date: Sat, 8 Apr 2000 11:06:06 -0500  
From: "ke5tc" <ke5tc@crosstel.net>  
To: "Low Power Radio qrp-1" <qrp-1@Lehigh.EDU>  
Subject: [67513] re: arkiecon  
Message-ID: <001901bfa174\$6d60c540\$c26c1ece@computer1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Nick's(wa5bdu) post pretty much said it all. Arkiecon was a lot of fun. I didn't get to leave Baja Kansas until after noon on Sat. But Doug bribed the border guard and I was allowed to cross. (g) I did get to catch Glen and Paul's forums and enjoyed both. The evening was spend with good conservation, barbecue, portable antenna, and lots of small radios to play with. I had a blast! Thank guys for all the hard work. I'm just a border Okie from Baja Kansas at Arkiecon.

72 Royce ke5tc

-----  
Date: Sun, 09 Apr 2000 12:11:25 -0400  
From: john <johnmb@mindspring.com>  
To: qrp-1@Lehigh.EDU  
Subject: [67514] Help needed with MFJ Nicad pack/charger  
Message-ID: <3.0.3.32.20000409121125.00778564@mindspring.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

I purchased a MFJ 4114 rechargable battery pack today at the Raleigh hamfest, and find that it has no charger cube with it. Can someone tell

me what wall wart (that's what I'm guessing it is) is used with it and what the connections to the three pins on the board are I'd greatly appreciate it. I guess I'll have to search through the bins to see if there's anything suitable around here.

Any help appreciated!  
Best  
John

-----  
Date: Sun, 09 Apr 2000 11:12:44 -0700  
From: Ken La Rose <kenlar@csolve.net>  
To: qrp-1@Lehigh.EDU  
Subject: [67515] HB: my SNAP transmitter  
Message-ID: <38F0C81C.6866@csolve.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dear SNAP aficionados:

Atlanticon was most memorable, and I was tickled to receive an honourable mention for my entry in the SNAP building contest. Lacking a decent junkbox and suitable test equipment, I knew it had to be different to get noticed. Here's what I did:

On the computer, I laid out the word "SNAP" for use as a template on the circuit board supplied. Using the scroll saw, I fretworked the letters, then cleaned them up with miniature files and sandpaper. Several attempts were required to balance the layout of components, with battery input on the left side, power output on the right. Gluing down the pads and soldering all the parts made it spring to life. Voila! A nice clean 20mW signal observed with my receiver. Lastly, I bonded a magnetic badgeholder to the back of the little gem, so that one could "show it off" on a lapel or breast.

A proven "icebreaker", it elicited comments ranging from "WOW" to "I was going to do EXACTLY the same thing" to "You've got WAY too much time on your hands" (I wish!) Tom AA2VK "SNAPped" a photo and kindly sent it to me. A little fuzzy, but you get the idea. Surf on over to <http://www.geocities.com/ve3ela/index.html> to take a boo.

Presentation was important, so I mounted it over a bright red vinyl starburst pattern in a mini jewellery case, allowing room for the 9V



battery power supply too. Glued to the inside lid is a copy of the schematic.

Taking it a few steps further, here's some cool things to try next:

- 1) Design and build "CRACKLE", a matching companion receiver
- 2) Design and build "POP!", a matching power amplifier
- 3) Start a new QRP fashion craze with the ultimate in wearable QRPp art. Amaze your friends! Collect them all! Create your own! Imagine the possibilities!! No, wait.....maybe I DO have too much time on my hands.....gotta go DO something now;-)

Best 71,

de Ken VE3ELA Midland, On.

-----  
Date: Sun, 09 Apr 2000 09:35:45 PDT  
From: "Doug Hendricks" <ki6ds@hotmail.com>  
To: n5wu@worldnet.att.net  
Cc: qrp-l@lehigh.edu  
Subject: [67516] NorCal  
Message-ID: <20000409163545.71763.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Sam, I am sorry that you are upset with NorCal. You subscribed right after the cutoff date for making the decision on how many fall issues to print. Thus, your next issue would have been the winter one. Sometimes in life, things happen. I had serious medical problems in November, and was ordered by the Dr. and my wife to not do anything with qrp for 3 months. I wasn't too afraid of my Dr. finding out, but there was no way that I was going to chance JoAnne catching me doing qrp stuff, so nothing got done with the winter issue for 3 months by me. But Paul Harden, NA5N stepped forward and insisted on helping me by doing the editing and layout work for the winter issue, in addition to printing and doing all of the artwork.

Thus the issue was delayed and will ship soon, it is at the bindery now. All Norcal activities are done by volunteers, who have other things going on in their lives, but do enjoy helping others with qrp. We do the best that we can, but sometimes things happen beyond our control. Some people understand this and some don't. We certainly don't want you to be unhappy. If you are unhappy, you can send me an email, and I will gladly refund your money and send it to you tomorrow. You can even post it here on qrp-l where you have posted most of your complaints.

NorCal is not a business, we do the best that we can, and believe me we

don't want to get issues out late, because when we do, we get several emails that we have to take time to answer and explain why it is late instead of doing productive work. It is a hassle for us, and we try to avoid it when we can.

You mention excuses. I don't make excuses. I give reasons and explanations. Excuses are given by people who want to avoid solving the problem or pass the blame on to others. QRPp is late because of me, and I accept the criticism and complaints, but I also have the right to explain and give reasons why. If you or any other NorCal member is unhappy with QRPp or anything else that you have purchased from us, let us know, and we will make it right. If you want a refund, just ask and we will be happy to send it to you immediately.

72, Doug, KI6DS

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Sun, 9 Apr 2000 13:51:05 -0400  
From: "Ken Simpson" <W8EK@fdt.net>  
To: "QRP List" <qrp-l@lehigh.edu>  
Subject: [67517] Bencher paddle FS  
Message-ID: <008601bfa24c\$4462c0c0\$d9cafea9@kensimps>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For Sale:

Bencher BY-1 Paddle. This is the one with the black base, and all chrome parts. It includes the adjustment wrench, and is one of the newer models. It is as good of shape as you will find. Only \$65 plus shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson  
E-Mail to W8EK@fdt.net or W8EK@juno.com  
Voice Phone (352) 732-8400

-----  
Date: Sun, 09 Apr 2000 13:55:33 -0400  
From: john@neknetwork.com  
To: kenlar@csolve.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [67518] Re: HB: my SNAP transmitter  
Message-ID: <38F0C415.7EC8F344@neknetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Oh, this is truly pathetic... wearable QRP gear... I'VE JUST GOT TO GET SOME!!!

Now, how best to inconspicuously mount an 80m dipole on a ball cap. A Tuner/SWR meter for the cap's emblem and set of paddles mounted on a ring... hmmm, my wedding band would hold those, and I'm \*SURE\* my wife will understand. Actually, I'm certain my wife won't be seen with me wearing anything like this! :)

Yep, I think you've started a trend Ken. Congratulations!

73,

John, KB1ENS

Ken La Rose wrote:

>  
> Dear SNAP aficionados:  
>  
> Atlanticon was most memorable, and I was tickled to receive an  
> honourable mention for my entry in the SNAP building contest. Lacking a  
> decent junquebox and suitable test equipment, I knew it had to be  
> different to get noticed. Here's what I did:  
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> On the computer, I laid out the word "SNAP" for use as a template on the  
> circuit board supplied. Using the scroll saw, I fretworked the letters,  
> then cleaned them up with miniature files and sandpaper. Several  
> attempts were required to balance the layout of components, with battery  
> input on the left side, power output on the right. Gluing down the pads  
> and soldering all the parts made it spring to life. Voila! A nice clean  
> 20mW signal observed with my receiver. Lastly, I bonded a magnetic  
> badgeholder to the back of the little gem, so that one could "show it

> off" on a lapel or breast.  
>  
> A proven "icebreaker", it elicited comments ranging from "WOW" to "I was  
> going to do EXACTLY the same thing" to "You've got WAY too much time on  
> your hands" (I wish!) Tom AA2VK "SNAPped" a photo and kindly sent it to  
> me. A little fuzzy, but you get the idea. Surf on over to  
> <http://www.geocities.com/ve3ela/index.html>  
> to take a boo.  
>  
> Presentation was important, so I mounted it over a bright red vinyl  
> starburst pattern in a mini jewellery case, allowing room for the 9V  
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>  
> Taking it a few steps further, here's some cool things to try next:  
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> 1) Design and build "CRACKLE", a matching companion receiver  
> 2) Design and build "POP!", a matching power amplifier  
> 3) Start a new QRP fashion craze with the ultimate in wearable QRPP art.  
> Amaze your friends! Collect them all! Create your own! Imagine the  
> possibilities!! No, wait.....maybe I DO have too much time on my  
> hands.....gotta go DO something now;-)  
>  
> Best 71,  
>  
> de Ken VE3ELA Midland, On.

--

John Wagner - [john@neknetwork.com](mailto:john@neknetwork.com)  
Web page: <http://www.neknetwork.com>  
Affordable web site hosting under your domain name!  
C/C++, Perl, CGI, RDBMS, Web site creation and  
Network Administration

-----  
Date: Sun, 9 Apr 2000 15:21:35 -0400  
From: "Wilford D. Lindsey" <[70511.3041@compuserve.com](mailto:70511.3041@compuserve.com)>  
To: "INTERNET:sslyon@worldnet.att.net" <[sslyon@worldnet.att.net](mailto:sslyon@worldnet.att.net)>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <[70511.3041@compuserve.com](mailto:70511.3041@compuserve.com)>, QRP-L Discussion Group  
<[QRP-L@Lehigh.edu](mailto:QRP-L@Lehigh.edu)>  
Subject: [67519] Propagation/Popcorn  
Message-ID: <200004091525\_MC2-A070-4E07@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain;  
charset=us-ascii  
Content-Disposition: inline

Seab:

Well it was a pleasure to dig you out. Sorry it took so long. But condx were not that wonderful at the time. Setup here was K2 at 5 watts to the big 540' horizontal loop at 33'. Glad we hooked up. I have about 170 QSO's in 6 hours or so, nearly all of them on 20 Metres. Just about to get going again today. Good luck.

72,

--Doc Lindsey/K0EVZ

DSBF

PO BOX 6028

Bismarck, ND 58506

(Shipping: DSBF, 2020 Lovett Ave, Bismarck, ND 58504)

K0EVZ@arrl.net

-----  
Date: Sun, 9 Apr 2000 13:29:33 -0600

From: "Rod, N0RC" <n0rc@qsl.net>

To: "qrp-l" <qrp-l@Lehigh.EDU>

Subject: [67520] Help with QRP-ARCI QSO

Message-ID: <015601bfa25a\$188b4540\$cb101004@compaq>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I worked a weak station in Maine, K0ZK who was sending 1ooNN for the NR. Not sure what he meant. Cut number for 10,000? Some kinda pwr abbreviation??? I listened to him work others, no mistake 1 o o N N was sent. Ideas?

---

72/3 Rod, N0RC -- Fort Collins, CO

-----  
Date: Sun, 09 Apr 2000 13:10:36 -0700

From: Jerry Parker <jparker@fix.net>

To: qrp-l@LeHigh.edu

Subject: [67521] ArkieCon Reports and QRP AFIELD Results Posted

Message-ID: <2.2.32.20000409201036.00f146e4@fix.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

The ArkieCon reports along with pictures as soon as I get them  
are being posted to the NorCal Page.

Also the 1999 QRP AFIELD Results have been posted also, THANKS DAVE.

<http://www.fix.net/norcal.html>

Enjoy,,,72,,,Jerry...WA6OWR...K

-----  
Date: Sun, 9 Apr 2000 16:04:46 -0400  
From: "Ron Polityka" <wb3aal@talon.net>  
To: ". QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [67522] ARCI Contest  
Message-ID: <002301bfa25f\$54440540\$1fe508cf@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

10 Meters is open east to west.

72 & 73  
Good DXing

Ron Polityka  
de WB3AAL  
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv  
                    <http://www.n3epa.org>  
Eastern Pennsylvania QRP Club Call  
N3EPA    E-mail address: n3epa@talon.net

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society	

-----  
Date: Sun, 09 Apr 2000 13:14:42 -0700  
From: Patrick Armstrong <aa7fg@gte.net>  
To: qrp-1@Lehigh.EDU  
Subject: [67523] SELL: NC40 w/keyer \$75.00  
Message-ID: <38F0E4B2.5D8EE245@gte.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have an original NorCal club kit NC40 in good condition with the KC-1 keyer/freq counter. The KC-1 is installed, but not connected up. There is a problem with it and I suspect the PIC controller. Please e-mail for additional details and offers...

Thanks,  
Pat - AA7FG

-----  
Date: Sun, 9 Apr 2000 14:12:17 -0600  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: "Rod, N0RC" <n0rc@qsl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [67524] Re: Help with QRP-ARCI QSO  
Message-ID: <01bd01bfa260\$0c0b71e0\$cb101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

OOPS make that 1 o o T T, SRI in a bit of a rush have to get ready for work, yes work 4p-1a Sun-Thu.

I bet 10,000 is what was meant.

---  
72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----  
From: Rod, N0RC <n0rc@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Sunday, April 09, 2000 1:29 PM  
Subject: Help with QRP-ARCI QSO

```
> I worked a weak station in Maine, K0ZK who was sending 10oNN for the
> NR. Not sure what he meant. Cut number for 10,000? Some kinda pwr
> abbreviation??? I listened to him work others, no mistake 1 o o N N
```

Date: Sun, 9 Apr 2000 16:23:37 EDT  
From: W1XV@cs.com  
To: qrp-l@lehigh.edu  
Subject: [67525] HELP: generic Ten-Tec #224 audio cw filter  
Message-ID: <50.3c9ea53.262240c9@cs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I've been searching for too long and have come up empty with a posting here (or at [contesting.com](http://contesting.com)) for a company that is currently producing the Ten-Tec #224 or #224A optional cw audio filter. Someone please point me in the right direction. Tnx. 72 Brad W1XV ORP ARCI #4505

Date: Sun, 09 Apr 2000 16:49:22 -0400  
From: Rick Evans <rkevans@iag.net>  
To: qrp-l@Lehigh.EDU  
Subject: [67526] Re: West Florida QRP Meeting - building stuff!  
Message-ID: <38F0ECD2.A1712024@iag.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

In our last episode, macstein wrote:

```
> In spite of my haphazard parts ordering and boxing, the club Manhattan
> building project has begun.  What a hoot to see so many people gluing pads to
> their bodies (instead of the PCB) and smelling all that solder/superglue.
> (Good ventilation is a must -- that and doughnuts WHICH, happily he reports,
> were there.)
```



In a blatant attempt to win the first web page award for this project:

<http://www.iag.net/~rkevans>

Kudos to Mac for all the work he's done, and my prayers for his son.

Rick Evans  
KG4FER  
qrp-l 1836, SOC 278

-----  
Date: Sun, 9 Apr 2000 17:55:52 -0500  
From: "Jim Crooke" <crooke@prodigy.net>  
To: <qrp-l@lehigh.edu>  
Subject: [67527] Happy Dance at Arkiecon  
Message-ID: <01fa01bfa276\$c360b9c0\$e06c9cd1@crooke>

The toes be tapping here!

No, I didn't win the K2, but I did pass the 20wpm test (barely).

Nick, WA5BDU did a great job of summing up the meeting and left very little to add. My thanks to all down there and I'm looking forward to next year.

72, Jim WB0HQV/AE  
Healer of Brachycephalics and other good looking creatures  
QRP-L 2100 SOC 37  
High upon the plateau of the Ozark mountains of SW MO

-----  
End of QRP-L Digest 1786

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